

June 2014 Regional Climate Summary

For the San Francisco Bay Area and Monterey Bay Area

June 2014 was an uneventful weather month. There were no significant weather events across the region in June, and little to no rainfall at the climate stations. Average temperatures for the month were close to normal.

June Temperatures:

A brief heat event occurred on June 8 and 9. Most of heat was confined to inland areas where afternoon temperatures surpassed 100 deg. F in some of the warmest inland valleys. Only two daily record high temperatures were set during this event (in Gilroy and Livermore). The record high of 105 in Livermore on the 9th equaled a record that dated back nearly a century to 1918. There were a few more very warm days in June, most notably on the 14th, 18th and 30th, but there were no other significant heat events or any other daily record high temperatures.

Average temperatures for the month were generally within a couple degrees of normal. The exceptions were a few inland locations (Livermore, Livermore Airport, San Rafael and Los Gatos) where average high temperatures were 4 to 5 degrees F warmer than normal.

As is typical for June, areas of night and morning low clouds were common. The image below was taken from Lick Observatory shortly after sunrise on June 28.



June Regional Temperature Summary

Location	Average High	Normal High	Departure from Normal	Average Low	Normal Low	Departure from Normal
North Bay						
Angwin	83.2	80.8	2.4	52.0	51.5	0.5
Calistoga	86.3	85.9	0.4	52.6	50.4	2.2
Cloverdale	90.2	87.5	2.7	54.2	55.5	-1.3
Kentfield	82.0	79.1	2.9	51.3	51.9	-0.6
Napa	84.4	81.1	3.3	53.8	53.4	0.4
Napa Airport	79.0	78.4	0.6	50.4	49.9	0.5
Petaluma Airport	79.4	78.6	0.8	49.6	50.6	-1.0
Saint Helena	87.9	85.2	2.7	54.0	53.4	0.6
San Rafael	80.7	75.8	4.9	53.5	53.4	0.1
Sonoma County Airport	83.2	81.2	2.0	49.6	50.0	-0.4
Sonoma	83.7	83.1	0.6	51.2	51.0	0.2
San Francisco Peninsula						
Half Moon Bay	64.4	63.5	0.9	49.9	49.2	0.7
Redwood City	80.0	79.2	0.8	54.1	53.5	0.6
San Francisco Airport	73.0	70.6	2.4	55.5	53.8	1.7
San Francisco Downtown	66.5	66.4	0.1	53.0	52.8	0.2
East Bay						
Antioch	88.2	86.1	2.1	59.1	57.9	1.2
Concord	84.5	83.4	1.1	57.0	56.4	0.6
Concord Airport	85.4	82.6	2.8	55.5	55.9	-0.4
Fremont	77.7	75.4	2.3	54.6	54.8	-0.2
Hayward Airport	71.5	71.9	-0.4	51.5	55.2	-3.7
Livermore	88.1	83.3	4.8	54.4	54.2	0.2
Livermore Airport	86.5	81.1	5.4	55.6	54.1	1.5
Martinez	86.5	85.1	1.4	47.1	50.2	-3.1
Mount Diablo Junction	77.7	77.6	0.1	56.5	54.3	2.2
Newark	75.7	74.8	0.9	55.9	56.3	-0.4
Oakland	72.5	71.5	1.0	54.9	55.0	-0.1
Oakland Airport	71.6	70.5	1.1	54.4	53.8	0.6
Richmond	71.3	71.5	-0.2	54.2	54.7	-0.5
South Bay and Santa Cruz County						
Los Gatos	85.4	81.1	4.3	51.9	52.4	-0.5
Moffett Federal Airfield	77.1	76.2	0.9	57.0	56.6	0.4
Mount Hamilton	73.5	70.7	2.8	58.7	55.6	3.1
San Jose	79.3	79.1	0.2	55.5	56.0	-0.5
Santa Cruz	75.9	74.7	1.2	51.4	51.8	-0.4
Watsonville	69.8	71.3	-1.5	52.4	51.7	0.7
Watsonville Airport	72.0	73.1	-1.1	52.2	50.7	1.5

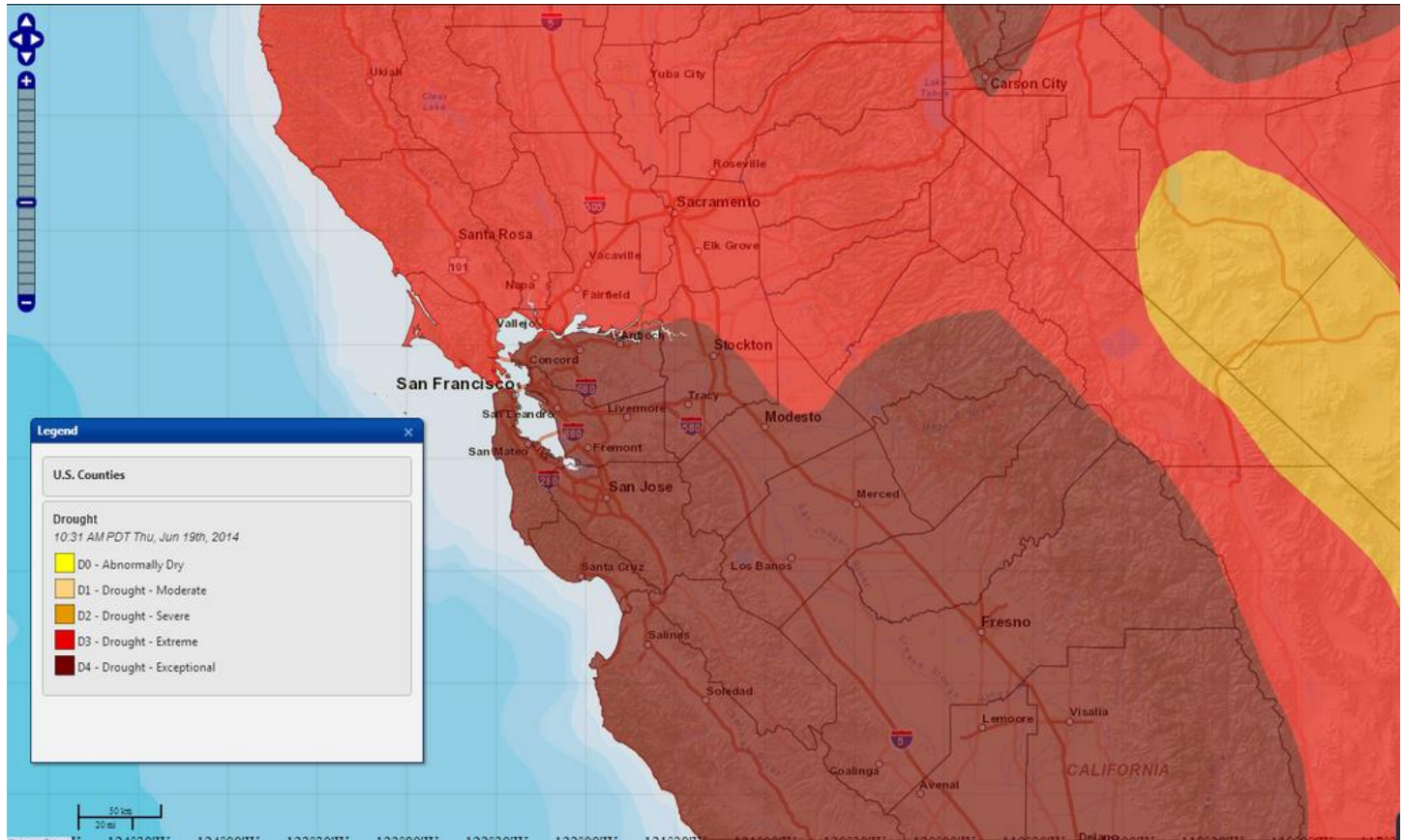
Monterey and San Benito Counties						
Carmel Valley	77.4	76.4	1.0	47.3	48.7	-1.4
Hollister	78.1	79.1	-1.0	51.1	50.9	0.2
King City	83.3	83.3	0.0	51.0	50.4	0.6
Monterey	66.0	64.9	1.1	50.6	50.3	0.3
Monterey Airport	68.6	66.7	1.9	53.5	52.0	1.5
Pinnacles National Park	91.2	87.9	3.3	47.6	46.8	0.8
Salinas	68.6	70.1	-1.5	52.4	51.0	1.4
Salinas Airport	68.9	70.2	-1.3	53.1	53.1	0.0

Daily High Temperature Records for June 2014			
Date	Location	Record Max Temp	Previous Record and Year
6/08	Gilroy	102	102 in 1973
6/09	Livermore	105	105 in 1918

June Precipitation:

A couple of weak late-season weather systems moved through the region from the June 24 through 26. These systems mostly acted to enhance onshore flow and produce patchy coastal drizzle. But a few very light showers tracked across the San Francisco Bay Area during the early morning hours of Thursday June 26, dropping measurable rain as far inland as Livermore.

June is typically a dry month and June 2014 was even drier than usual. Most climate stations received no measurable rain at all in June. Of those locations that did see measurable rain, precipitation totals for the month were only 20 percent of normal, or less. The June 19th issuance of the Drought Monitor (see below) showed little change from May. The North Bay counties remained in the D3 (extreme) drought category while the rest of the region remained in the most intense drought classification, D4 or exceptional.



June 30 marked the official end of the 2013-14 rain year. Rainfall totals for 2013-14 year were only about half of normal across the San Francisco Bay Area and Monterey Bay Area, but ranged from as little as a third of normal (portions of the San Francisco Peninsula and across the Bay at Hayward) to as much as two-thirds of normal (portions of the North and East Bay). A complete summary of the 2013-14 rain year will be issued as a separate document.

June Regional Precipitation Summary:

Location	June Rainfall	Normal June Rainfall	Percent of Normal
North Bay			
Angwin	0.00	0.29	0
Calistoga	0.00	0.22	0
Cloverdale	0.00	0.16	0
Kentfield	0.00	0.25	0
Muir Woods	0.08	0.36	22
Napa	0.00	0.19	0
Napa Airport	0.00	0.19	0
Occidental	0.00	0.41	0
Petaluma Airport	0.00	0.17	0
Saint Helena	0.00	0.16	0
San Rafael	0.00	0.14	0
Sonoma County Airport	0.00	0.24	0
Sonoma	0.00	0.19	0
San Francisco Peninsula			
Half Moon Bay	0.05	0.29	17
Palo Alto	0.00	0.09	0
Redwood City	0.00	0.10	0
San Francisco Airport	0.01	0.11	9
San Francisco Downtown	0.01	0.16	6
East Bay			
Antioch	0.00	0.09	0
Concord	0.00	0.10	0
Concord Airport	0.00	0.09	0
Fremont	0.00	0.10	0
Hayward Airport	0.01	0.20	5
Livermore	0.01	0.09	11
Livermore Airport	0.00	0.04	0
Martinez	0.00	0.13	0
Mount Diablo Junction	0.00	0.19	0
Newark	0.00	0.11	0
Oakland	0.00	0.12	0
Oakland Airport	0.00	0.18	0
Richmond	0.00	0.20	0
South Bay & Santa Cruz County			
Ben Lomond	0.04	0.23	17
Gilroy	0.00	0.11	0
Los Gatos	0.00	0.10	0
Moffett Federal Airfield	0.01	0.10	10
Mount Hamilton	0.00	0.26	0
San Jose	0.01	0.10	10
Santa Cruz	0.02	0.19	11
Watsonville	0.00	0.11	0
Watsonville Airport	0.01	0.12	8

Monterey and San Benito Counties			
Carmel Valley	0.00	0.13	0
Hollister	0.00	0.07	0
King City	0.00	0.05	0
Monterey	0.04	0.20	20
Monterey Airport	0.01	0.10	10
Pinnacles National Park	0.00	0.07	0
Salinas	0.00	0.09	0
Salinas Airport	0.02	0.09	22

June Winds:



Locally strong winds occurred on a couple of occasions during June as upper level troughs deepened along the west coast, triggering strong onshore flow. These wind events primarily impacted areas near gaps in the coastal mountain ranges and the Diablo Range. On 3:45 pm on Monday, June 16 the San Francisco International Airport (SFO) reported a peak wind gust of 41 mph. During that same afternoon wind gusts of up to 50 mph were reported through the Altamont Pass in Alameda County. Later in the month, at 2:06 pm on Thursday June 26, SFO once again reported a peak wind gust of 41 mph.

Miscellaneous June Climate Information

Monthly Ranks for Downtown San Francisco		
Average High Temperature	66.5 deg	46 th warmest June out of 140 years
Average Low Temperature	53.0 deg	47 th warmest June out of 140 years
Precipitation	0.01 in	58 th driest June out of 165 years

Monthly Extremes for Select Locations			
Location	Max Temp: Warmest Day(s)	Min Temp: Coolest Day(s)	Precipitation: Wettest Day(s)
Sonoma County Airport	6/08	6/15	n/a
	100 degrees	44 degrees	
San Francisco	6/08, 6/18	several days	6/26
	78 degrees	51 degrees	0.01 inches
Livermore Airport	6/09	6/01, 6/18	n/a
	106 degrees	51 degrees	
San Jose	6/08, 6/30	6/02	6/26
	92 degrees	51 degrees	0.01 inches
Salinas Airport	6/18	6/01, 6/18	6/12
	79 degrees	49 degrees	0.02 inches

Note: This climatological data is preliminary. For official certified climatological data please contact the National Climatic Data Center at 828-271-4800 or <http://www.ncdc.noaa.gov>. Official values as determined at the above web site may take several months for authentication and publication.